



US 20160034679A1

(19) **United States**

(12) **Patent Application Publication**
YUN et al.

(10) **Pub. No.: US 2016/0034679 A1**

(43) **Pub. Date: Feb. 4, 2016**

(54) **WEARABLE DEVICE AND METHOD OF
OPERATING THE SAME**

Publication Classification

(71) Applicant: **SAMSUNG ELECTRONICS CO.,
LTD.**, Suwon-si (KR)

(51) **Int. Cl.**
G06F 21/32 (2006.01)
G06K 9/00 (2006.01)
G06K 9/62 (2006.01)
G02B 27/01 (2006.01)

(72) Inventors: **In-kuk YUN**, Suwon-si (KR); **Je-in YU**,
Seoul (KR); **Dae-kwang JUNG**,
Suwon-si (KR)

(52) **U.S. Cl.**
CPC **G06F 21/32** (2013.01); **G02B 27/0172**
(2013.01); **G06K 9/00885** (2013.01); **G06K**
9/6201 (2013.01); **G02B 2027/0178** (2013.01);
G02B 2027/014 (2013.01); **G02B 2027/0138**
(2013.01); **G06K 2009/00932** (2013.01)

(73) Assignee: **SAMSUNG ELECTRONICS CO.,
LTD.**, Suwon-si (KR)

(21) Appl. No.: **14/812,436**

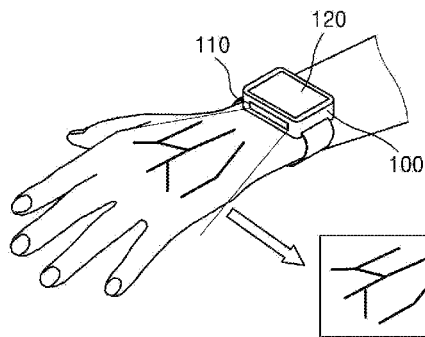
(57) **ABSTRACT**

A wearable device includes: a sensor configured to capture a vein image of a user; and a processor configured to control the sensor to capture the vein image of the user wearing the wearable device when a function or an application is selected, identify the user by comparing the captured vein image with at least one registered vein image, and execute the function or the application when the user has execution authority.

(22) Filed: **Jul. 29, 2015**

(30) **Foreign Application Priority Data**

Jul. 31, 2014 (KR) 10-2014-0098645



PROVISION OF MUSIC LIST
PROVISION OF ADVERTISEMENT/INFORMATION
SETTING UPDATE
PROVISION OF CONTACT LIST
AUTOMATIC LOGIN TO SNS
DATA TRANSMISSION
DATA TRANSMISSION
PAYMENT WITH CREDIT CARD

<VEIN CAPTURING>

<VEIN AUTHENTICATION>

<EXECUTION OF FUNCTION>